

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims**

1. (original) A method for stabilizing video data, said method comprising the steps of:

subdividing said video into a plurality of successive frames  
dividing each of said successive frames into a plurality of blocks;  
determining for each block of each frame a motion vector representing the direction and magnitude of the motion in said block, said vector GMV at an instant t being called global motion vector GMV(t) and representing said motion at the instant t with respect to the previous frame;

defining a modified vector, called integrated motion vector IMV(t) at the instant t and designating the final motion vector correction to be applied to the current frame in view of its motion correction, said integrated motion vector being given by the expression:

$$IMV(t)=GMV(t)+a(E) \cdot IMV(t-1)$$

where GMV(t) is the global motion vector of the current frame at the instant t, a(E) is a variable adaptive factor depending on an expression E and IMV(t-1) is the integrated motion vector corresponding to the previous current frame; and

modifying the video data according to the modified integrated motion vectors defined for each successive current frame.

2. (original) A stabilizing method according to claim 1, in which said variable adaptive factor depends on the sum of the two last global motion vectors.

3. (currently amended) A stabilizing method according to claim 2, in which the variable ~~damping~~adaptive factor  $a(E)$  is determined independently for the horizontal and vertical coordinates of the vectors.

4. (previously presented) A stabilizing method according to claim 1, comprising an additional correction step, provided for checking if the correction of motion vector is not above a given threshold and, if yes, modifying said correction so that it stays within a predetermined allowed range.

5. (original) A system for stabilizing video data, said system comprising:

a frame storage for storing a plurality of successive frames of video data of the video recording;

a processor coupled to said frame storage for dividing each frame into a plurality of blocks, determining for each block of each frame a motion vector which represents the direction and magnitude of the motion in said block, said vector at an instant  $t$  being called global motion vector  $GMV(t)$  and representing said motion at the instant  $t$  with respect to the previous frame, defining a motion vector, called integrated motion vector  $IMV(t)$  at the instant  $t$  and designating the final motion vector correction to be applied to the current frame in view of its motion correction, said integrated motion vector being given by the expression

$$IMV(t) = GMV(t) + a(E) \cdot IMV(t-1)$$

where  $GMV(t)$  is the global motion vector of the current frame at the instant  $t$ ,  $a(E)$  is a variable adaptive factor depending on an expression  $E$  and  $IMV(t-1)$  is the integrated motion vector corresponding to the previous current frame, and modifying the video data according to the modified integrated motion vectors defined for each successive current frame.